



PAGE: 1  
DATE: 12/18/2001  
TIME: 17:13:49

## VERIFICATION SUMMARY REPORT

### PATENT APPLICATION

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#### GENERAL INFORMATION SECTION

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10,<140> 09/701,623  
11,<141> 2000-12-01  
13,<150> PCT/US99/13959  
14,<151> 1999-06-21  
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17,<151> 1998-06-20  
19,<160> 91  
21,<170> PatentIn Ver. 2.1

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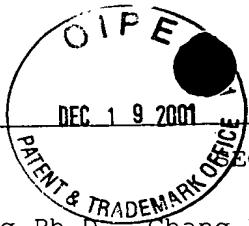
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Application Serial Number: 09/701,623  
Alpha or Numeric: Numeric  
Application Class:  
Application File Date: 2000-12-01  
Art Unit:  
Software Application: PatentIn  
Total Number of Sequences: 91  
Total Nucleotides: 0  
Total Amino Acids: 4055  
Number of Errors: 0  
Number of Warnings: 18  
Number of Corrections: 0

09/701,623-120100



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<110> Wang Ph.D., Chang Yi

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<151> 1999-06-21

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His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn Pro Arg  
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Ala Phe Ala Thr Pro Glu Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu  
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Pro Arg Lys Thr Lys Gly Ser Gly Phe Phe Val Phe Ser Arg Leu Glu  
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Ser Tyr Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val His Lys Ala  
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Pro Lys Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met Glu Gly Met

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Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val Thr Ser Thr  
165 170 175

Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr Tyr Tyr Cys  
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Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala  
195 200 205

Lys Ala Pro Gly Lys Arg Ala Pro Pro Asp Val Tyr Leu Phe Leu Pro  
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Pro Glu Glu Glu Gln Gly Thr Lys Asp Arg Val Thr Leu Thr Cys Leu  
225 230 235 240

Ile Gln Asn Phe Phe Pro Ala Asp Ile Ser Val Gln Trp Leu Arg Asn  
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Asp Ser Pro Ile Gln Thr Asp Gln Tyr Thr Thr Thr Gly Pro His Lys  
260 265 270

Val Ser Gly Ser Arg Pro Ala Phe Phe Ile Phe Ser Arg Leu Glu Val  
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<301> Steen,  
<303> J. Mol. Biol.  
<304> 177  
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Asn Gly Thr Pro Lys Leu Thr Cys Leu Val Leu Asp Leu Glu Ser Glu  
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Glu Asn Ile Thr Val Thr Trp Val Arg Glu Arg Lys Lys Ser Ile Gly  
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Ser Ala Ser Gln Arg Ser Thr Lys His His Asn Ala Thr Thr Ser Ile  
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Thr Ser Ile Leu Pro Val Asp Ala Lys Asp Trp Ile Glu Gly Glu Gly  
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Tyr Gln Cys Arg Val Asp His Pro His Phe Pro Lys Pro Ile Val Arg  
195 200 205

Ser Ile Thr Lys Ala Leu Gly Leu Arg Ser Ala Pro Glu Val Tyr Val  
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Phe Leu Pro Pro Glu Glu Glu Lys Asn Lys Arg Thr Leu Thr Cys  
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Leu Ile Gln Asn Phe Phe Pro Glu Asp Ile Ser Val Gln Trp Leu Gln  
245 250 255

Asp Ser Lys Leu Ile Pro Lys Ser Gln His Ser Thr Thr Thr Pro Leu  
260 265 270

Lys Thr Asn Gly Ser Asn Gln Arg Phe Phe Ile Phe Ser Arg Leu Glu  
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Asp Asp Arg Glu Ile Thr Asp Thr Leu Ala Gln Thr Val Leu Ile Lys  
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Gln Gln Trp Met Ser Glu Ser Thr Phe Thr Cys Arg Val Thr Ser Gln  
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Gly Cys Asp Tyr Leu Ala His Thr Arg Arg Cys Pro Asp His Glu Pro  
100 105 110

Arg Gly Ala Ile Thr Tyr Leu Ile Pro Pro Ser Pro Leu Asp Leu Tyr  
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Gln Asn Gly Ala Pro Lys Leu Thr Cys Leu Val Val Asp Leu Glu Ser  
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Glu Lys Asn Val Asn Val Thr Trp Asn Gln Glu Lys Lys Thr Ser Val  
145 150 155 160

Ser Ala Ser Gln Trp Tyr Thr Lys His His Asn Asn Ala Thr Thr Ser  
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180 185 190

Gly Tyr Gln Cys Ile Val Asp Arg Pro Asp Phe Pro Lys Pro Ile Val  
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210 215 220

Val Phe Pro Pro Pro Glu Glu Glu Ser Glu Asp Lys Arg Thr Leu Thr  
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Cys Leu Ile Gln Asn Phe Phe Pro Glu Asp Ile Ser Val Gln Trp Leu  
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Gly Asp Gly Lys Leu Ile Ser Asn Ser Gln His Ser Thr Thr Thr Pro  
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Leu Lys Ser Asn Gly Asn Gln Gly Phe Phe Ile Phe Ser Arg Leu Glu  
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Val Ala Lys Thr Leu Trp Thr Gln Arg Lys Gln Phe Thr Cys Gln Val  
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<220>  
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<223> I, M, V

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Gly Gly Xaa Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Xaa Glu Xaa  
20 25 30

Xaa Gly Gly Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His  
35 40 45

Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys  
50 55 60

<210> 23  
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<220>  
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<220>  
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<222> (16)  
<223> S, T

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<220>  
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<223> I, M, L

<220>  
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<222> (28)  
<223> G, T

<220>  
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<222> (29)  
<223> I, M, V

<400> 23

Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Gly Gly Xaa Xaa  
1 5 10 15

Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Xaa Glu Xaa Xaa Gly Gly Cys  
20 25 30

Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His Leu Pro Arg Ala  
35 40 45

Leu Met Arg Ser Thr Thr Lys Cys  
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<210> 24  
<211> 46  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<220>

<221> MOD\_RES

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<220>

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<220>

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<222> (13)

<223> K, R

<220>

<221> MOD\_RES

<222> (16)

<223> G, T

<400> 24

Ile	Ser	Ile	Xaa	Glu	Ile	Xaa	Xaa	Val	Ile	Val	Xaa	Xaa	Ile	Glu	Xaa
1				5				10					15		

Ile Leu Phe Gly Gly Cys Gly Tyr Gly Tyr Gln Ser Ile Val Asp His

20				25			30					
----	--	--	--	----	--	--	----	--	--	--	--	--

Pro Asp Phe Pro Lys Pro Ile Val Arg Ser Ile Thr Lys Cys

35				40			45					
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<210> 25  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 25  
Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr  
1 5 10 15

Ile Asp Gly Gly Cys Gly Tyr Gly Tyr Gln Ser Ile Val Asp His Pro  
20 25 30

Asp Phe Pro Lys Pro Ile Val Arg Ser Ile Thr Lys Cys  
35 40 45

<210> 26  
<211> 45  
<212> PRT  
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material as source

<400> 26  
Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr  
1 5 10 15

Ile Asp Gly Gly Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro  
20 25 30

His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys  
35 40 45

<210> 27  
<211> 46  
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synthesized from amino acids with no genetic  
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<223> E, R

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<223> G, M

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<222> (19)  
<223> F, T

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<222> (20)  
<223> G, M

<400> 27  
Xaa Xaa Ile Ser Glu Ile Xaa Gly Val Xaa Val His Lys Xaa Xaa Xaa  
1 5 10 15

Ile Leu Xaa Xaa Gly Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His  
20 25 30

Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys  
35 40 45

<210> 28  
<211> 49  
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synthesized from amino acids with no genetic  
material as source

<400> 28  
Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro  
1 5 10 15

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu  
20 25 30

Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser  
35 40 45  
Arg

<210> 29  
<211> 60

<212> PRT

<213> Artificial Sequence

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synthesized from amino acids with no genetic  
material as source

<400> 29

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
1 5 10 15

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
20 25 30

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp Leu Ala  
35 40 45

Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg  
50 55 60

<210> 30

<211> 64

<212> PRT

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synthesized from amino acids with no genetic  
material as source

<400> 30

Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys  
1 5 10 15

Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser  
20 25 30

Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val  
35 40 45

Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg  
50 55 60

<210> 31  
<211> 76  
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synthesized from amino acids with no genetic  
material as source

<400> 31  
Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr  
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp Leu Ala  
50 55 60

Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg  
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<210> 32  
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material as source

<400> 32  
Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro  
1 5 10 15

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu  
20 25 30

Val Val Asp  
35

<210> 33  
<211> 46  
<212> PRT  
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material as source

<400> 33  
Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
1 5 10 15

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
20 25 30

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp  
35 40 45

<210> 34  
<211> 50  
<212> PRT  
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synthesized from amino acids with no genetic  
material as source

<400> 34  
Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys  
1 5 10 15

Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser  
20 25 30

Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val  
35 40 45

Val Asp  
50

<210> 35  
<211> 62

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 35

Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr  
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp  
50 55 60

<210> 36

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 36

Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro  
1 5 10 15

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile  
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<210> 37

<211> 40

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic

material as source

<400> 37

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
1 5 10 15

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
20 25 30

Phe Ile Arg Lys Ser Pro Thr Ile  
35 40

<210> 38

<211> 44

<212> PRT

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 38

Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys  
1 5 10 15

Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser  
20 25 30

Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile  
35 40

<210> 39

<211> 56

<212> PRT

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 39

Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr  
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile  
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<210> 40  
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synthesized from amino acids with no genetic  
material as source

<400> 40  
Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys Gln Val Thr Tyr  
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu  
35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu Val Val Asp Leu Ala  
50 55 60

Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg  
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<210> 41  
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<400> 41

Cys Lys Gln Arg Asn Gly Thr Leu Thr Cys  
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<210> 42  
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synthesized from amino acids with no genetic  
material as source

<400> 42  
Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys Gln Val Thr Tyr  
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn  
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro  
35 40 45

<210> 43  
<211> 34  
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synthesized from amino acids with no genetic  
material as source

<400> 43  
Cys Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg Ala Ser Gly  
1 5 10 15

Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys Gln Arg Asn Gly  
20 25 30

Thr Cys

<210> 44  
<211> 33

<212> PRT  
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material as source  
  
<400> 44  
Cys Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys  
1 5 10 15

Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr  
20 25 30

Cys

<210> 45  
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<400> 45  
Ser Thr Thr Lys Thr Ser Gly Pro Arg Ala Ala Pro Gl  
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<210> 46  
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<400> 46  
Cys Trp Ser Arg Ala Ser Gly Lys Pro Val Cys Asn His Ser  
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<210> 47  
<211> 19  
<212> PRT  
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synthesized from amino acids with no genetic  
material as source

<400> 47  
Cys Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr  
1 5 10 15  
Ile Thr Cys

<210> 48  
<211> 13  
<212> PRT  
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<400> 48  
Cys Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Pro Cys  
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<210> 49  
<211> 15  
<212> PRT  
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material as source

<400> 49  
Cys Pro Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Pro Cys  
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<210> 50  
<211> 16  
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<400> 50  
Cys Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Cys  
1 5 10 15

<210> 51  
<211> 8  
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<400> 51  
Lys Glu Glu Lys Gln Arg Asn Gly  
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<210> 52  
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<400> 52  
Cys Trp Ser Arg Ala Ser Gly Lys Pro Val Cys  
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<210> 53  
<211> 21

<212> PRT  
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<400> 53  
Pro Thr Ile Thr Cys Leu Val Leu Asp Leu Ala Pro Ser Lys Gly Thr  
1 5 10 15

<210> 55  
<211> 25  
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material as source  
  
<400> 55  
Thr Ser Thr Leu Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr  
1 5 10 15  
Tyr Gln Cys Arg Val Thr His Pro His  
20 25

<210> 56  
<211> 16  
<212> PRT  
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<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 56  
Pro Thr Ile Thr Ser Leu Val Leu Cys Leu Ala Pro Ser Lys Gly Cys  
1 5 10 15

<210> 57  
<211> 23  
<212> PRT  
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<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 57  
Cys Val Asn Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His  
1 5 10 15

Ser Thr Arg Lys Glu Glu Cys  
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<210> 58  
<211> 53  
<212> PRT  
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<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 58  
Cys Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg  
1 5 10 15

Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu  
20 25 30

Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg  
35 40 45

Val Thr His Pro His  
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<210> 59  
<211> 10  
<212> PRT  
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<220>  
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material as source

<400> 59  
Lys Thr Lys Gly Ser Gly Phe Phe Val Phe  
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<210> 60  
<211> 19  
<212> PRT  
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<223> G, T

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<222> (16)

<223> G, T

<400> 60

Ile Ser Ile Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Ile Glu Xaa  
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Ile Leu Phe

<210> 61

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 61

Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val  
1 5 10 15

<210> 62

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic

material as source

<400> 62

Gly Ile Leu Glu Ser Arg Gly Ile Lys Ala Arg Ile Thr His Val Asp  
1 5 10 15

Thr Glu Ser Tyr

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<210> 63

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 63

Lys Lys Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10 15

Leu

<210> 64

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 64

Lys Lys Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys  
1 5 10 15

Val Ser Ala Ser His Leu

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<210> 65

<211> 30

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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 65  
Lys Lys Leu Arg Arg Leu Leu Tyr Met Ile Tyr Met Ser Gly Leu Ala  
1 5 10 15

Val Arg Val His Val Ser Lys Glu Glu Gln Tyr Tyr Asp Tyr  
20 25 30

<210> 66  
<211> 27  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 66  
Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp Arg Phe Leu  
1 5 10 15

Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys  
20 25

<210> 67  
<211> 24  
<212> PRT  
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<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 67  
Gly Ala Tyr Ala Arg Cys Pro Asn Gly Thr Arg Ala Leu Thr Val Ala  
1 5 10 15

Glue Leu Arg Gly Asn Ala Glu Leu  
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<210> 68  
<211> 15  
<212> PRT  
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synthesized from amino acids with no genetic  
material as source

<400> 68  
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp  
1 5 10 15

<210> 69  
<211> 21  
<212> PRT  
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material as source

<400> 69  
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro  
1 5 10 15

Asn Ala Pro Ile Leu  
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<210> 70  
<211> 20  
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<220>  
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synthesized from amino acids with no genetic  
material as source

<400> 70

Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Thr Ala Ser Ala  
1 5 10 15

Leu Tyr Arg Glu  
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<210> 71  
<211> 20  
<212> PRT  
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material as source

<400> 71  
Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu  
1 5 10 15

Met Thr Leu Ala  
20

<210> 72  
<211> 17  
<212> PRT  
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<220>  
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synthesized from amino acids with no genetic  
material as source

<400> 72  
Trp Val Arg Asp Ile Ile Asp Asp Phe Thr Asn Glu Ser Ser Gln Lys  
1 5 10 15

Thr

<210> 73  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 73

Arg Ala Gly Arg Ala Ile Leu His Ile Pro Thr Arg Ile Arg Gln Gly  
1 5 10 15

Leu Glu Arg

<210> 74

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 74

Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Leu Gln Arg Ala  
1 5 10 15

Gly Arg Ala Ile Leu  
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<210> 75

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 75

Ala Leu Asn Ile Trp Asp Arg Phe Asp Val Phe Ser Thr Leu Gly Ala  
1 5 10 15

Thr Ser Gly Tyr Leu Lys Gly Asn Ser  
20 25

<210> 76  
<211> 22  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 76  
Asp Ser Glu Thr Ala Asp Asn Leu Glu Lys Thr Val Ala Ala Leu Ser  
1 5 10 15

Ile Leu Pro Gly His Gly  
20

<210> 77  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 77  
Glu Glu Ile Val Ala Gln Ser Ile Ala Leu Ser Ser Leu Met Val Ala  
1 5 10 15

Gln Ala Ile Pro Leu Val Gly Glu Leu Val Asp Ile Gly Phe Ala Ala  
20 25 30

Thr Asn Phe Val Glu Ser Cys  
35

<210> 78  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic

material as source

<400> 78

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
1 5 10 15

Asn Val Val Asn Ser

20

<210> 79

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 79

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg  
1 5 10 15

Ile

<210> 80

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<400> 80

Gly Leu Gln Gly Lys Ile Ala Asp Ala Val Lys Ala Lys Gly  
1 5 10

<210> 81

<211> 19

<212> PRT

<213> Artificial Sequence

220  
223 Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

400 81  
Gly Leu Ala Ala Gly Leu Val Gly Met Ala Ala Asp Ala Met Val Glu  
1 5 10 15  
Asp Val Asn

210 82  
211 20  
212 PRT  
213 Artificial Sequence

220  
223 Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

400 82  
Ser Thr Glu Thr Gly Asn Gln His His Tyr Gln Thr Arg Val Val Ser  
1 5 10 15  
Asn Ala Asn Lys  
20

210 83  
211 15  
212 PRT  
213 Artificial Sequence

220  
223 Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

400 83  
Cys Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Cys  
1 5 10 15

210 84  
211 25

<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source  
  
<400> 84  
Cys Gly Glu Thr Tyr Lys Ser Thr Val Ser His Pro Asp Leu Pro Arg  
1 5 10 15  
  
Glu Val Val Arg Ser Ile Ala Lys Cys  
20 25

<210> 85  
<211> 60  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Peptide synthesized from amino acids with no genetic material as source

<220>  
<221> MOD\_RES  
<222> (18)  
<223> S, T

<220>  
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<222> (21)  
<223> K, R

<220>  
<221> MOD\_RES  
<222> (22)  
<223> G, T

<220>  
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<222> (26)  
<223> H, T

<220>  
<221> MOD\_RES

<222> (27)

<223> K, R

<220>

<221> MOD\_RES

<222> (30)

<223> G, T

<400> 85

Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Gly Gly Ile Ser  
1 5 10 15

Ile Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Ile Glu Xaa Ile Leu  
20 25 30

Phe Gly Gly Cys Gly Gly Thr Tyr Gln Ser Arg Val Thr His Pro His  
35 40 45

Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys  
50 55 60

<210> 86

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 86

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg  
1 5 10 15

Ile

<210> 87

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic

REF ID: A6500

material as source

<400> 87

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg  
1 5 10 15

Ile Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile  
20 25 30

Thr Thr Ile Asp Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His  
35 40 45

Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys  
50 55 60

<210> 88

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 88

Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Lys Lys Lys  
1 5 10 15

Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Tyr Ile Asp Lys  
20 25 30

Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro His Leu Pro Lys  
35 40 45

Asp Ile Val Arg Ser Ile Ala Lys Cys

50 55

<210> 89

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic

material as source

<400> 89

Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu Glu Thr  
1 5 10 15

Val Leu Phe

<210> 90

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 90

Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu Glu Thr  
1 5 10 15

Val Leu Phe Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro  
20 25 30

His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys  
35 40 45

<210> 91

<211> 63

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide  
synthesized from amino acids with no genetic  
material as source

<400> 91

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg  
1 5 10 15

Ile Lys Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu  
20 25 30

Glu Thr Val Leu Phe Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr  
35 40 45

His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys  
50 55 60